Concept study for Troll station

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**Summary**

Norway is in the process of completing a concept study for Troll station to identify future upgrade needs. The Ministry of Climate and Environment has tasked Statsbygg, who is the Norwegian government’s building commissioner, property manager and developer, with undertaking this concept study. The study will consider the future needs of Troll Station, and asses the upgrade needs. The concept study will produce three alternatives for a future version of Troll research station in Antarctica, with three different ambition and investment levels. This information paper is meant to serve as information to Parties of the ongoing national process that is projected to be concluded November 2021.

**Background**

Troll station is an all year station. After more than 10 years as an all year station, it has been decided that there is a need to consider future upgrades of the station. On the basis of this the Ministry of Climate and Environment has tasked Statsbygg to undertake a concept study to identify future upgrade needs for Troll Station.

The Concept Study has the following requirements framing its work:

1. The station will continue to have the same location
2. Troll station will continue to be an all year station, and it has been decided that the station must be able to function as an all year research station also during a possible construction period.
3. The station must have good research facilities and be able to facilitate the need for increased research capacity.
4. Energy security is of importance, and the station should to as large a degree as possible, rely on renewable energy.
5. The alternatives must be suitable for the Antarctic environment.
6. The station must have a refuge for use in case of evacuation needs.

The concept study will produce three alternatives for future upgrades to Troll station. These alternatives will have different ambition and investment levels. It is a goal that Troll be on par with the leading stations of Antarctica in developing and implementing environmentally friendly solutions including for energy use, waste handling, transport and other aspects of its operations. All relevant Norwegian actors are involved in the work with the Concept Study, with the Norwegian Polar Institute as the responsible user. The work with the Concept Study is set to conclude November 2021. If Parties wish to receive more information on the progress and results, we will be happy to provide this to interested Parties.